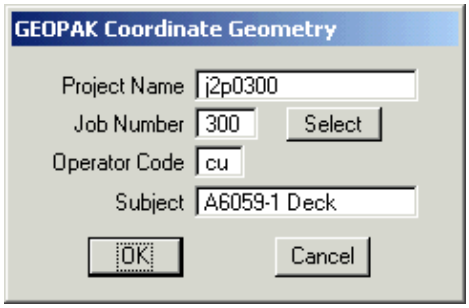
Exercise 11-2

1. Open the MicroStation file **t:\br-proj\a_geopak\d2\j2p0300\data\plan_j2p0300.dgn**.

2. Open the project **j2p0300.prj** and enter **Road** as user **userc**. Select the **Rte6** working alignment.

3. Choose **Coordinate Geometry** from the **Road Project** flow chart.

   Enter Coordinate Geometry with the settings shown to the right:



4. Use Bridge deck commands to find the quarter point elevations for the first span for Bridge A6059.

Bridge Name:	**A6059**.
Profile:	**RTE6PR**.
Tie:	**0**.
Cross Slope	**-2% (Normal Crown)**
Alignment:	**RTE6**.
Pier Direction Rt. to Lt.:	**N 13 56 34 W**.
Back Sta. CL Bearing:	**1288+26.4434**.
Ahead Sta. CL Bearing:	**1288+70.9850**.
Roadway Width:	**36'**.
Beam Spacing:	**8'-2"**.

   The needed COGO commands are given below:

```
BRIDGE A6059
PROFILE RTE6PR
TIE 0
SE 1288+00 LT -2 12 -2 RT -2 12 -2
ALI RTE6
PIER BK N 13 56 34 W AH N 13 56 34 W
SPAN 1 128826.4434 128870.9850 4 + P
FC -19.333333 19.333333
GU -18 18
BEAM OFF -16.333333 -8.166667 0 8.166667 16.333333
END SPAN
```

   Save the COGO commands (**File >> Same**) as an input file. Name it **59-1** and give it the description: **A6059-1 Deck**.

5. Use Ultra-Edit to view the file:

   t:\br-proj\a_geopak\d2\j2p0300\data\a6059-1.txt.

   Your results should be identical to those shown below. If not, use the COGO Editor (**Edit >> Editor**) to correct your input file. Once it is corrected, do a **Restore/Read**. Save the corrected input file.

```
Bridge Deck Elevation.
----------------------
Bridge A6059
Span A6059-1  1288+26.44 R 1 to 1288+70.99 R 1

           000      001      002      003      004
-------------------------------------------------------
LFC    799.1341 799.1173 799.1133 799.1133 799.1133
LGT    799.1591 799.1433 799.1400 799.1400 799.1400
BM   1 799.1906 799.1758 799.1733 799.1733 799.1733
BM   2 799.3461 799.3369 799.3367 799.3367 799.3367
BM   3 799.5039 799.5000 799.5000 799.5000 799.5000
BM   4 799.3375 799.3367 799.3367 799.3367 799.3367
BM   5 799.1733 799.1733 799.1733 799.1733 799.1733
RGT    799.1400 799.1400 799.1400 799.1400 799.1400
RFC    799.1133 799.1133 799.1133 799.1133 799.1133
PGL    799.5039 799.5000 799.5000 799.5000 799.5000
```